

What is claimed is:

1. A suction head for a vacuum cleaner, comprising:

5 a casing having a suction port for sucking alien substances from the floor;

an agitator rotatably installed inside the suction port, a plurality of brushes being arranged on the agitator in the length direction; and

an agitator driving unit for driving the agitator to perform reciprocating rotation in a predetermined angle range.

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2. The suction head of claim 1, wherein the agitator driving unit comprises:

a driving motor for generating a rotational force; and

15 a driving force transmitting unit for transforming rotation of the driving motor into rotation of the agitator, so that the agitator can perform reciprocating rotation in the forward/backward direction in the predetermined angle range.

3. The suction head of claim 2, wherein the driving force transmitting unit comprises:

20 a rotary link fixed to a motor shaft of the driving motor and rotated coaxially to the motor shaft;

a hinge bracket fixed to one side of the outer circumference of the agitator; and

a connecting rod of which an end is hingedly connected to a position of the rotary link eccentric from the rotation center of the rotary link, and another end is hingedly connected to the hinge bracket.

5           4.       The suction head of claim 3, wherein a first hinge hole is formed in the position of the rotary link eccentric from the rotation center of the rotary link;

a second hinge hole is formed on the hinge bracket; and

10           a first hinge shaft inserted into the first hinge hole of the rotary link is protruded from an end of the connecting rod, and a second hinge shaft inserted into the second hinge hole of the hinge bracket is protruded from another end of the connecting rod.

15           5.       The suction head of claim 3, wherein a first hinge shaft is protruded from the position of the rotary link eccentric from the rotation center of the rotary link;

a second hinge shaft is protruded from the hinge bracket; and

20           a first hinge hole into which the first hinge shaft of the rotary link is inserted is formed in one end of the connecting rod, and a second hinge hole into which the second hinge shaft of the hinge bracket is inserted is formed in another end of the connecting rod.

6.       The suction head of claim 1, wherein the brushes are evenly

arranged at regular intervals in the length direction of the agitator.

7. The suction head of claim 1, wherein the brushes are arranged in rows in the length direction of the agitator.

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8. The suction head of claim 1, further comprising a suction nozzle installed inside the casing, for collecting the alien substances sucked from the suction port, a volume of which being reduced from the suction port to the opposite side.

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